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NOTICE OF ALLOWANCE AND FEE(S) DUE

28862

7590

07/23/2004

HUDAK, SHUNK & FARINE, CO., L.P.A.
2020 FRONT STREET
SUITE 307
CUYAHOGA FALLS, OH 44221

EXAMINER

ENGLISH, PETER C

ART UNIT

PAPER NUMBER

3616

DATE MAILED: 07/23/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/270,908	10/15/2002	Stephan Berges	FMW-AS (1938)	7232

TITLE OF INVENTION: ROLLOVER PROTECTION SYSTEM FOR MOTOR VEHICLES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	10/25/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail**

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(703) 746-4000**

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

28862 7590 07/23/2004

**HUDAK, SHUNK & FARINE, CO., L.P.A.
2020 FRONT STREET
SUITE 307
CUYAHOGA FALLS, OH 44221**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	NO	\$1330	\$300	\$1630	10/25/2004

EXAMINER	ART UNIT	CLASS-S UBCLASS
ENGLISH, PETER C	3616	280-756000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent); ☐ individual ☐ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s):

- ☐ A check in the amount of the fee(s) is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is not claiming SMALL ENTITY status. See, e.g., 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

(Authorized Signature)

(Date)

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/270,908	10/15/2002	Stephan Berges	FMW-AS (I 938)	7232
28862	7590	07/23/2004		
HUDAK, SHUNK & FARINE, CO., L.P.A. 2020 FRONT STREET SUITE 307 CUYAHOGA FALLS, OH 44221			EXAMINER ENGLISH, PETER C	
			ART UNIT 3616	PAPER NUMBER

DATE MAILED: 07/23/2004

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 100 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 100 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Notice of Allowability

Application No.

10/270,908

Examiner

Peter C. English

Applicant(s)

BERGES ET AL.

Art Unit

3616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 28 June 2004.
2. ☒ The allowed claim(s) is/are 1-5.
3. ☒ The drawings filed on 28 June 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Peter C. English
Primary Examiner
Art Unit: 3616

Art Unit: 3616

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.


2. In order to correct a minor, grammatical error, the application has been amended as follows:

In claim 1, at line 1, --a-- has been inserted before "motor".


3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter C. English whose telephone number is 703-308-1377. The examiner can normally be reached on Monday through Thursday (7:00 AM - 5:00 PM).


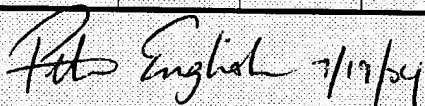
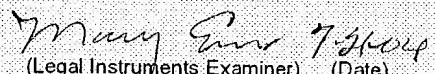
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul N. Dickson can be reached on 703-308-2089. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Peter C. English 7/19/04
Primary Examiner
Art Unit 3616

pe
19 July 2004

Issue Classification 	Application No.	Applicant(s)	
	10/270,908	BERGES ET AL.	
	Examiner	Art Unit	
	Peter C. English	3616	

ISSUE CLASSIFICATION									
ORIGINAL				CROSS REFERENCE(S)					
CLASS		SUBCLASS		CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
280		756		296	190.03				
INTERNATIONAL CLASSIFICATION									
B	6	0	R	21/13					
				/					
				/					
				/					
				/					
 (Assistant Examiner) (Date)				 Peter C. English (Primary Examiner) (Date)				Total Claims Allowed: 5	
 (Legal Instruments Examiner) (Date)								O.G. Print Claim(s) 1	O.G. Print Fig. 1

<input checked="" type="checkbox"/> Claims renumbered in the same order as presented by applicant										<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1		31		61		91		121		151		181		
2	2		32		62		92		122		152		182		
3	3		33		63		93		123		153		183		
5	4		34		64		94		124		154		184		
4	5		35		65		95		125		155		185		
	6		36		66		96		126		156		186		
	7		37		67		97		127		157		187		
	8		38		68		98		128		158		188		
	9		39		69		99		129		159		189		
	10		40		70		100		130		160		190		
	11		41		71		101		131		161		191		
	12		42		72		102		132		162		192		
	13		43		73		103		133		163		193		
	14		44		74		104		134		164		194		
	15		45		75		105		135		165		195		
	16		46		76		106		136		166		196		
	17		47		77		107		137		167		197		
	18		48		78		108		138		168		198		
	19		49		79		109		139		169		199		
	20		50		80		110		140		170		200		
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	23		53		83		113		143		173		203		
	24		54		84		114		144		174		204		
	25		55		85		115		145		175		205		
	26		56		86		116		146		176		206		
	27		57		87		117		147		177		207		
	28		58		88		118		148		178		208		
	29		59		89		119		149		179		209		
	30		60		90		120		150		180		210		

Search Notes



Application No.

10/270,908

Examiner

Peter C. English

Applicant(s)

BERGES ET AL.

Art Unit

3616

SEARCHED

Class	Subclass	Date	Examiner
280	756 753	3/22/2004	PE
296	190.03 102	3/22/2004	PE
296	107.03	3/22/2004	PE
Updated		7/19/04	PE

INTERFERENCE SEARCHED

Class	Subclass	Date	Examiner
280	756,753	7/19/04	PE
296	190.03	7/19/04	PE

SEARCH NOTES (INCLUDING SEARCH STRATEGY)

	DATE	EXMR
EAST (see printout)	3/22/2004	PE

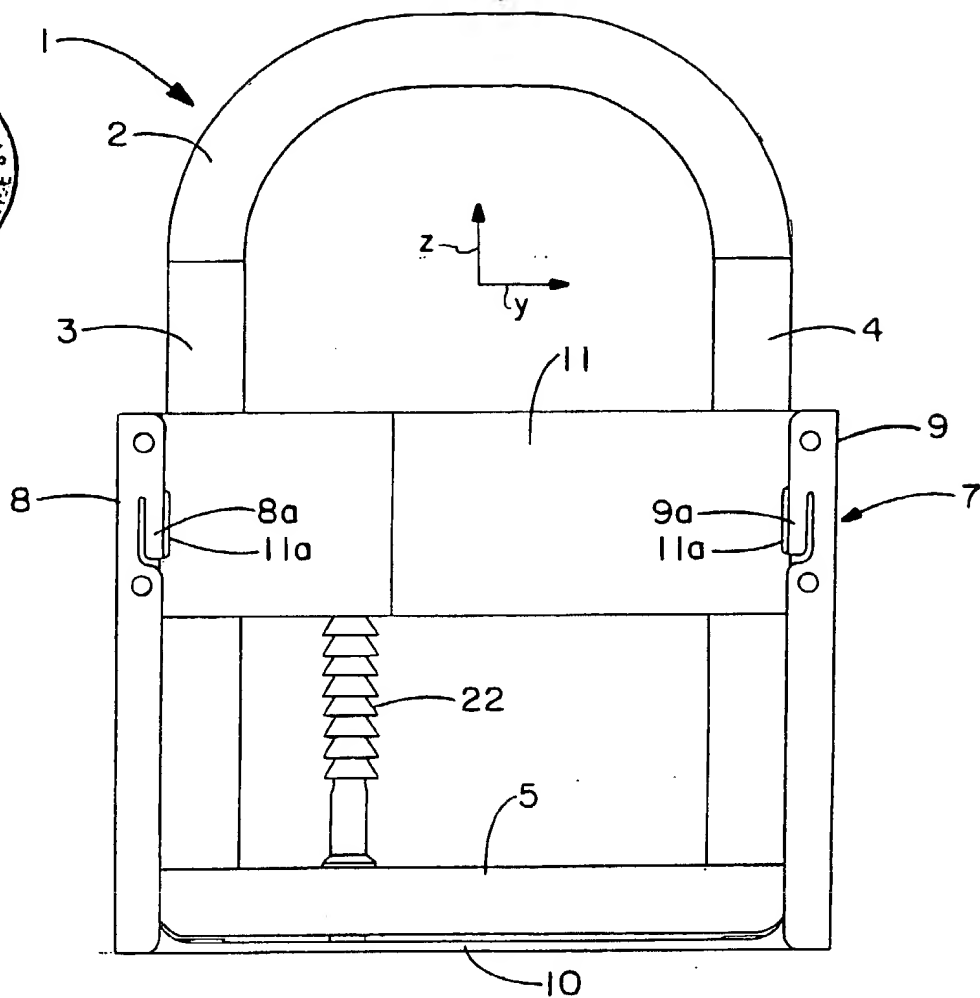


FIG. - 1

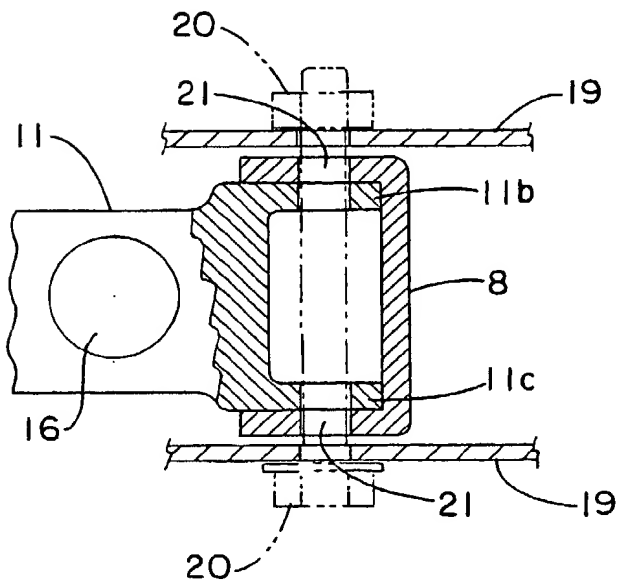


FIG. - 4 PRIOR ART

Corrected
Figs. 1-4

Approved

PE
7/19/04

Silva teaches the invention substantially including fault-tolerant execution of mobile agents (see abstract).

As to claim 21, Silva teaches a method for initializing migrating managed state for a Java based application, comprising the operations of:

creating the migrated module on the second server (section 4.3.2, Silva discloses the protocol to migrate the agents between Agencies has been made atomic to failures, that is, it assures that a mobile agent is completely migrated to a remote server)

creating a state partitions for the migrated module based on the passed schema specification (see abstract, Silva discloses ... the framework includes a set of schema for failure detection ... a simple schema to deal with network partitions...); and

recovering a managed state for the migrated module from a state server (section 4.1, Silva discloses...when the system runs with a set of Managers it is necessary to include some fault-tolerance schemes...for failure recovery...)

Silva fails to teach sending a request to a second server to start a migrated module, the request being sent from a control module of a first module executing on a first server, wherein the control module passes a schema specification.

However, Jacobs teaches smart stub or enterprise java bean in a distributed processing system. Jacobs teaches sending a request to a second server to start a migrated module, the request being sent from a control module of a first module executing on a first server, wherein the control module passes a schema specification (column 1, lines 50-63, Jacobs discloses server 103 hosts business logic...the software may be programmed using a variety of programming models, such as Enterprise Java Bean...server 103 may retrieve data from database 101a...to a request from a client...Application server 103 then may transfer the request data...)

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Silva in view of Jacobs to make a first server sending a request to a second server to start a migrated module. One would have been motivated to do so allow for enhanced scalability and fault tolerance (see abstract).

As to claim 23, Silva teaches a method as recited in claim 22.

Silva fails to teach the migration-capable non-replicated state is transferred using a replicated state manager specific protocol.

It would have been obvious to one of ordinary skill the art at the time of the invention to modify Siva by introducing one of numerous known methods of data transmission by means of a so-called file transfer protocol (FTP). One would have been motivated to do so that one distinct connection is established between the two communicating computers, which last only for the duration of the transfer.

As to claim 24, Silva teaches a method as recited in claim 21, wherein a replicated state manager creates the state partitions for the migrated module based on the passed schema specification (see abstract, Silva discloses ... the framework includes a set of schema for failure detection ... a simple schema to deal with network partitions...).

As to claim 25, Silva teaches a method as recited in claim 24.

Silva fails to teach the replicated state manager further creates SMUs for the migrated module.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Silva to create SMUs since state partitions can contain multiple SMUs. One would have been motivated to do so to permit the control module to control a disjoint subset of the network.

As to claim 26, Silva teaches a method as recited in claim 25, further comprising the operation of informing the control module to switch control to the migrated module (4.3.2, paragraph 3, Silva discloses when the remote Agency receives the agent it is saved in the stable storage... The remote Agency will try to execute the agent. If it succeeds it sends a commit message to the sender Agency).

8. Claim 22 rejected under 35 U.S.C. 103(a) as being unpatentable over Silva et al. IEEE "Fault-Tolerant Execution of Mobile Agents" published on 25-28 June 2000, in view of Jacobs et al. U.S. 6,581,088, and further in view of Kub et al. "OceanStore: An Architecture for Global-Scale Persistent Storage" published on 12-15 Nov. 2000.

Silva teaches the invention substantially including fault-tolerant execution of mobile agents (see abstract).

As to claim 22, Silva teaches a method as recited in claim 21.

Silva fails to teach to teach the operation of initializing the managed state for the migrated module using a replicated state manager executing the first server.

However, Kub teaches OceanStore: architecture for global-scale persistent storage. Kub teaches a migration-capable non-replicated state for the first entity bean is transferred to the second server (page 192, paragraph 5, Kub discloses... OceanStore benefits these applications by providing for seamless migration of data to where it is needed...).

It would have been obvious to one of ordinary skill in the art to modify Silva in view of Kub to allow the migrated module using a replicated state manager executing on the first server. One would have been motivated to do so to manage the archival storage only.

9. Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to El Hadji M Sall whose telephone number is 703-306-4153. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 703 308-7562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

El Hadji Sall
Patent Examiner
Art Unit: 2157



SALEH NAJJAR
PRIMARY EXAMINER